(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 20 October 2005 (20.10.2005)

PCT

(10) International Publication Number WO 2005/099152 A1

(51) International Patent Classification⁷: H04L 1/00, 1/16, 1/18

(21) International Application Number:

PCT/EP2005/002561

(22) International Filing Date: 10 March 2005 (10.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 04008017.8 1 April

1 April 2004 (01.04.2004) EP

(71) Applicant (for all designated States except US): MAT-SUSHITA ELECTRIC INDUSTRIAL CO., LTD. [JP/JP]; 1006, Oaza Kadoma Kadoma-shi, Osaka 571-8501 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LÖHR, Joachin

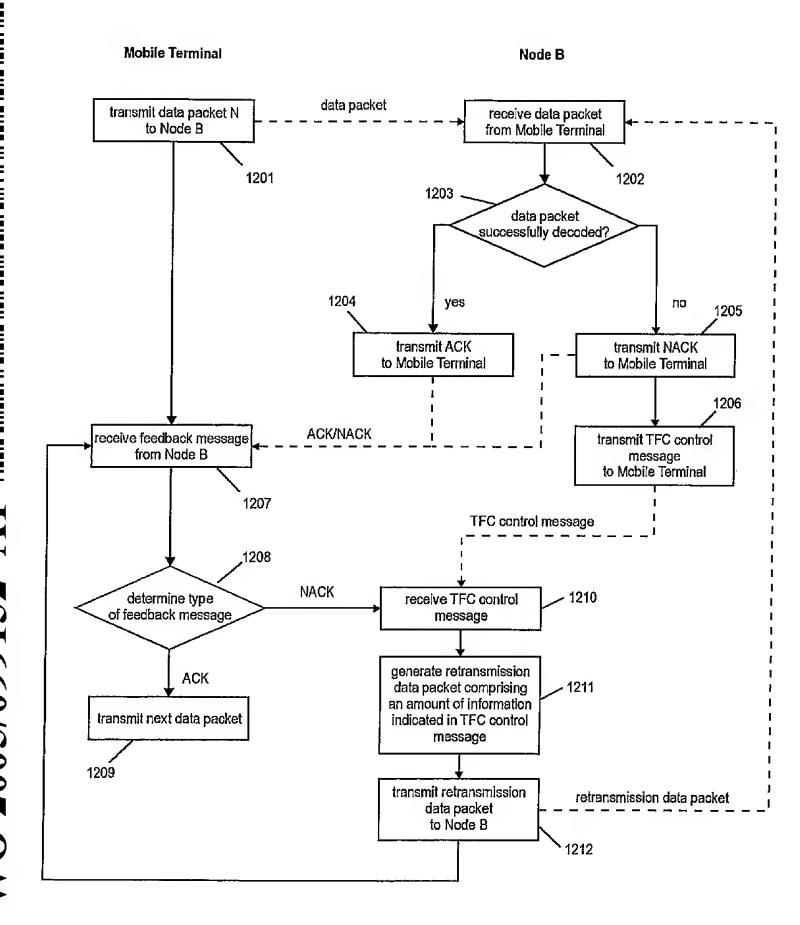
[DE/DE]; Soderstr. 90, 64287 Darmstadt (DE). **SEIDEL, Eiko** [DE/DE]; Moosbergstr. 97 a-b, 64285 Darmstadt (DE). **PETROVIC, Dragan** [YU/DE]; Am Kaiserschlag 15, 64295 Darmstadt (DE).

(74) Agent: KUHL, Dietmar; Grünecker, Kinkeldey, Stockmair & Schwanhäusser, Maximilianstr. 58, 80538 München (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: INTERFERENCE LIMITATION FOR RETRANSMISSIONS



(57) Abstract: The present invention relates to a method for transmitting data packets from a mobile terminal to a base station using a hybrid automatic repeat request protocol and soft combining of received data. Further, the present invention provides a base station and a mobile terminal both adapted to perform the respective Moreover, a communication method steps. system is provided which comprises at least one base station and at least one mobile terminal. The present invention also provides computer-readable medium for storing instructions that, when executed on a processor, cause the processor to transmit data packets from a mobile terminal to a base station using a hybrid automatic repeat request protocol and soft combining of received data. In order to restrict the interference caused by retransmissions, the present invention suggests controlling the amount of information in the retransmissions and thus the transmission power required for their transmission by TFCS restriction.

WO 2005/099152 A1



- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

with international search report